

APPARATUS AND METHOD FOR MEASURING VISCOSITY

ABSTRACT OF THE DISCLOSURE

An apparatus and method for measuring the viscosity of a sample fluid are disclosed. In one embodiment, a holding vessel (82) receives the sample fluid (94) and a weighted fluid (96). The weighted fluid (96) has a greater specific gravity than the sample fluid (94). A floating spacer (100) is buoyantly disposed in the weighted fluid (96) such that an interface (116) between the sample fluid (94) and the weighted fluid (96) is defined between the holding vessel (82) and the floating spacer (100). A capillary tube 86 is positioned in fluid communication with the holding vessel (82) such that a pressure drop is created across the capillary tube (86) when at least a portion of the sample fluid (94) is forced therethrough. The viscosity of the sample fluid (94) may be determined by utilizing Hagen-Poiseuille's Law.